



SEQUENCE LISTING

<110> Nabel, Elizabeth G.
Nabel, Gary J.

<120> Inhibition of Smooth Muscle Cell Migration by Heme
Oxygenase I

<130> 8642/72

<140> 09/378,528

<141> 1999-08-20

TO440 <150> 60/097,707

<151> 1998-08-21

<160> 4

<170> PatentIn Ver. 2.0

<210> 1

<211> 1550

<212> DNA

<213> Homo sapiens

<400> 1

tcaacgcctg cctccccctg agcgctcctca ggcgagccgc cgccccgcgga gccagcacga 60
acgagccag caccggccgg atggagcgtc cgcaaccgga cagcatgccc caggatttgt 120
cagaggccct gaaggaggcc accaaggagg tgcacacca ggcagagaat gctgagttca 180
tgaggaactt tcagaagggc caggtgacct gagacggctt caagctgggtg atggcctccc 240
tgtaccacat ctatgtggcc ctggaggagg agattgagcg caacaaggag agcccagtct 300
tcgccccctg ctacttccca gaagagctgc accgcaaggc tgccctggag caggacctgg 360
ccttctggta cgggccccgc tggcaggagg tcatcccta cacaccagcc atgcagcgct 420
atgtgaagcg gctccacgag gtggggcgca cagagccgga gctgctgggtg gcccacgcct 480
acaccgccta cctgggtgac ctgtctgggg gccaggtgct caaaaagatt gccagaaaag 540
ccctggacct gccagctct ggcgagggcc tggccttctt caccttcccc aacattgcca 600
gtgccaccaa gttcaagcag ctctaccgct ccgcgatgaa ctccctggag atgactcccg 660
cagtcaggca gagggtgata gaagaggcca agactgcgtt cctgctcaac atccagctct 720
ttgaggagtt gcaggagctg ctgacctatg acaccaagga ccagagcccc tcacgggcac 780
cagggtctcg ccagcgggcc agcaacaaag tgcaagattc tgcccccggtg gagactccca 840
gagggaagcc cccactcaac acccgctccc aggtccgct tctccgatgg gtccttacac 900
tcagctttct ggtggcgaca gttgctgtag ggctttatgc catgtgaatg caggcatgct 960
ggctcccagg gccatgaact ttgtccggtg gaaggccttc tttctagaga gggaattctc 1020
ttggctggct tccttaccgt gggcactgaa ggctttcagg gcctccagcc ctctcactgt 1080
gtccctctct ctggaaagga ggaaggagcc tatggcatct tccccacga aaagcacatc 1140
caggcaatgg cctaaacttc agagggggcg aaggggtcag ccctgccctt cagcatcctc 1200
agttcctgca gcagagcctg gaagacaccc taatgtggca gctgtctcaa acctccaaaa 1260
gccctgagtt tcaagtatcc ttgttgacac ggccatgacc actttccccg tgggcatgg 1320

caatttttac acaaacctga aaagatgttg tgtcttgtgt ttttgtctta tttttgttgg 1380
agccactctg ttcctggctc agcctcaaat gcagtatttt tgttgtgttc tgttgttttt 1440
atagcagggt tggggtggtt tttgagccat gcgtgggtgg ggaggagggt gtttaacggc 1500
actgtgcct tggctaaact tttgtgtgaa ataataaaca acattgtctg 1550

<210> 2

<211> 288

<212> PRT

<213> Homo sapiens

<400> 2

Met Glu Arg Pro Gln Pro Asp Ser Met Pro Gln Asp Leu Ser Glu Ala
1 5 10 15

Leu Lys Glu Ala Thr Lys Glu Val His Thr Gln Ala Glu Asn Ala Glu
20 25 30

Phe Met Arg Asn Phe Gln Lys Gly Gln Val Thr Arg Asp Gly Phe Lys
35 40 45

Leu Val Met Ala Ser Leu Tyr His Ile Tyr Val Ala Leu Glu Glu Glu
50 55 60

Ile Glu Arg Asn Lys Glu Ser Pro Val Phe Ala Pro Val Tyr Phe Pro
65 70 75 80

Glu Glu Leu His Arg Lys Ala Ala Leu Glu Gln Asp Leu Ala Phe Trp
85 90 95

Tyr Gly Pro Arg Trp Gln Glu Val Ile Pro Tyr Thr Pro Ala Met Gln
100 105 110

Arg Tyr Val Lys Arg Leu His Glu Val Gly Arg Thr Glu Pro Glu Leu
115 120 125

Leu Val Ala His Ala Tyr Thr Arg Tyr Leu Gly Asp Leu Ser Gly Gly
130 135 140

Gln Val Leu Lys Lys Ile Ala Gln Lys Ala Leu Asp Leu Pro Ser Ser
145 150 155 160

Gly Glu Gly Leu Ala Phe Phe Thr Phe Pro Asn Ile Ala Ser Ala Thr
165 170 175

Lys Phe Lys Gln Leu Tyr Arg Ser Arg Met Asn Ser Leu Glu Met Thr
180 185 190

Pro Ala Val Arg Gln Arg Val Ile Glu Glu Ala Lys Thr Ala Phe Leu

B1
Cont

195	200	205
Leu Asn Ile Gln Leu Phe Glu Glu Leu Gln Glu Leu Leu Thr His Asp		
210	215	220
Thr Lys Asp Gln Ser Pro Ser Arg Ala Pro Gly Leu Arg Gln Arg Ala		
225	230	235 240
Ser Asn Lys Val Gln Asp Ser Ala Pro Val Glu Thr Pro Arg Gly Lys		
245	250	255
Pro Pro Leu Asn Thr Arg Ser Gln Ala Pro Leu Leu Arg Trp Val Leu		
260	265	270
Thr Leu Ser Phe Leu Val Ala Thr Val Ala Val Gly Leu Tyr Ala Met		
275	280	285

<210> 3
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:5' primer

<400> 3
 gcggagccag cacgaacga

19

<210> 4
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:3' primer

<400> 4
 gtgccacgg taaggaagc

19

MAR 09 2000
 TECH CENTER 1600/2900

B1
 ant